

What is claimed is:

[Claim 1] The system for construction of a customizable software system and framework, including a server infrastructure and a set of management and design tools, for management and development of software modules as services, such as, but not limited to, "Web services", where the constructed system uses software service modules, implemented through itself and based on the functionality provided to the end-users of the system, to implement its own software functionality.

[Claim 2] The system of claim 1, further comprising: a method of communication between software management and design tools developed for supporting the functionality of such system and the runtime platform of the system through a set of software service modules implemented through the system. Wherein, the communication accomplishes transparent distribution for the parts of the system as consumers of software services from the parts of the system as producers of software services.

[Claim 3] The system of claim 1, further comprising: a method of rapid convergence of quality during the construction and advancement of the software system.

[Claim 4] The system of claim 1, further comprising: a method of reducing the implementation time of the system functionality.

[Claim 5] The system of claim 1, further comprising: a method of creating a high-degree of customizability through the exposure of system functions as consumable software services.

[Claim 6] The method of claim 2, further comprising: a service log manager tool for managing, viewing and analyzing the services dispatched through the system that uses a set of software services to interact with the system.

[Claim 7] The method of claim 2, further comprising: a service manager tool for managing the current running services that uses a set of software service modules to interact with the system.

[Claim 8] The method of claim 2, further comprising: a service cache manager tool for managing the cached services within the system that uses a set of software service modules to interact with the system.

[Claim 9] The method of claim 2, further comprising: a system shared-memory manager tool for managing the content of the system shared memory that uses a set of software service modules to interact with the system.

[Claim 10] The method of claim 2, further comprising: a consumer account provisioning manager tool used to provision and deploy service-oriented solutions that uses a set of software service modules to interact with the system.

[Claim 11] The method of claim 2, further comprising: a security manager tool used for user and role management that uses a set of software service modules to interact with the system.

[Claim 12] The method of claim 2, further comprising: a system cluster manager used for load-balancing and managing clusters of the system that uses a set of software service modules to interact with the cluster of systems.

[Claim 13] The method of claim 2, further comprising: any management or design tool that needs to interact with the system to use a set of software service modules to interact with the system.

[Claim 14] The system of claim 1, wherein the system is extended through a set of software service modules to implement the system-side functionality required for supporting the functionality of such system.

[Claim 15] The system of claim 1, wherein all services required for management, design and invocation of system functionality by the system are implemented as a set of software service modules.

[Claim 16] The system of claim 1, wherein the implementation of all the sets of software service modules can be replaced transparently for the purpose of customizing the system functionality.

[Claim 17] A system of invoking software services that encapsulates from the invoker the in-memory (i.e. within the address space of the implementing

system) execution of a service from an out-of-memory execution of the service (i.e. distributed such the system implementing the service is an external server).

[Claim 18] A method of broadcasting events from service implementation modules to the rest of the system.

[Claim 19] All other methods and systems explicit or implicit in the description of the enclosed invention.